City of Richmond
Community Safety
Earthquake Preparedness Symposium

Emergency Programs
Richmond Fire Rescue
Richmond RCMP

Richmond

Emergency Programs

Introduction

Goal: to inform the audience on how to protect themselves during an earthquake, to get prepared at work, school, and home, and what to do when the earthquake happens.

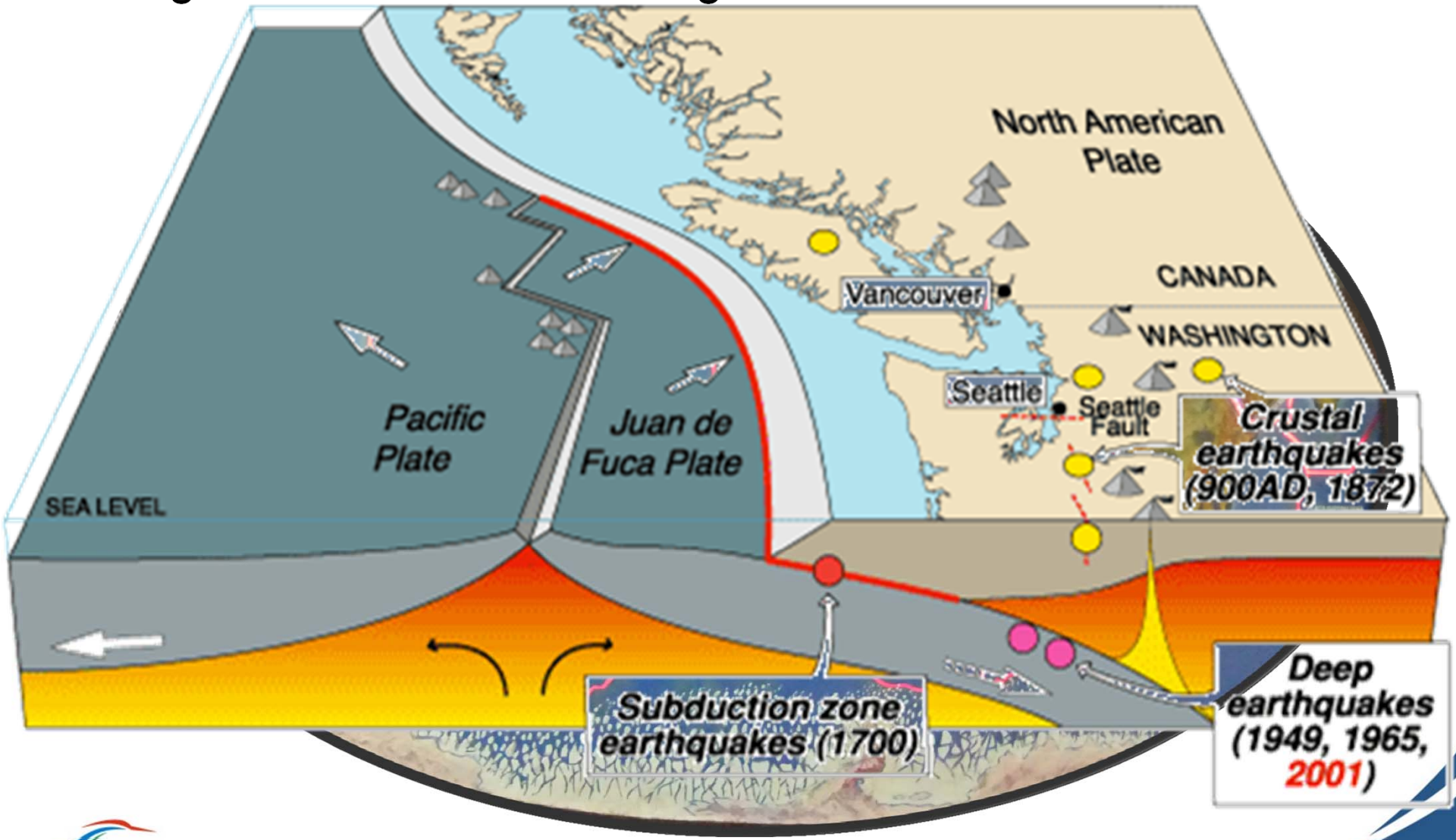
Prevent

Prepare

Act

What is an Earthquake?

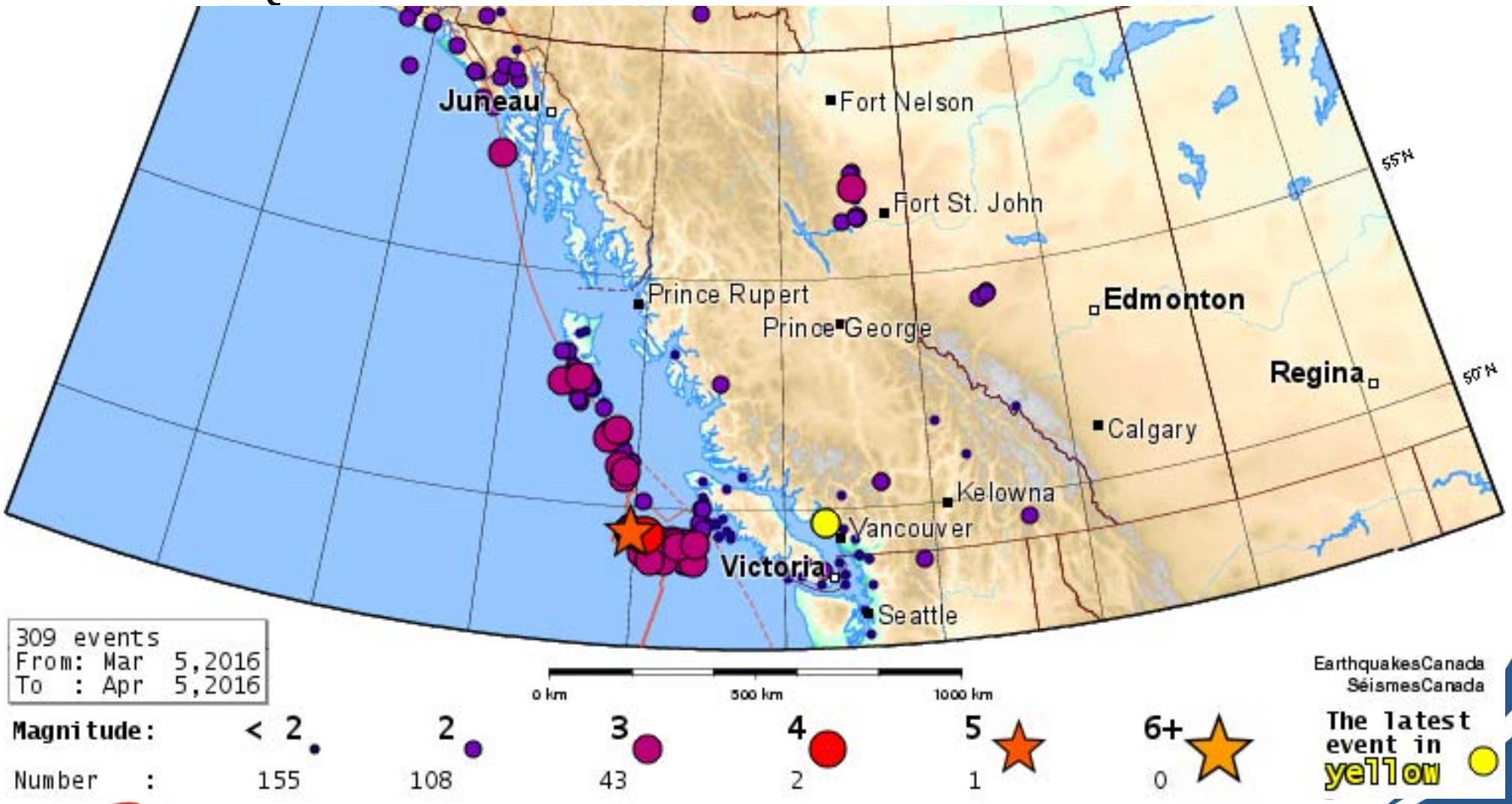
Earthquakes are caused when tectonic plates of the Earth's crust move against each other causing a disturbance.



Earthquakes

March 2016 – to April 2016

- 309 Quakes Plotted



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CAUTION !

The following video may be graphic, and may affect you.

Intensity

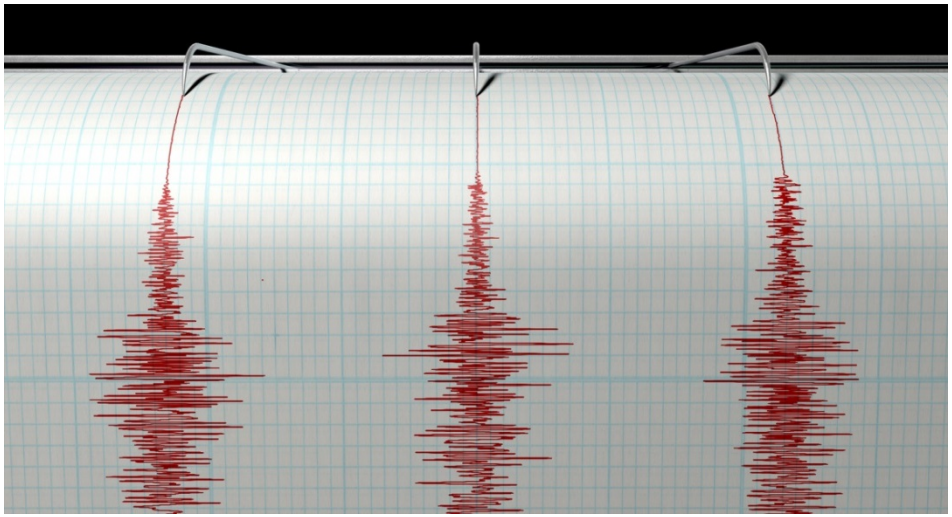
2015 Nepal M7.8 earthquake – about 50 sec

2015 Chile M8.3 earthquake – about 3 min

2012 Haida Gwaii M7.7 earthquake – about 90 sec

2011 Japan M9.0 earthquake – about 6 min

2010 Haiti M7.9 earthquake – about 1 min



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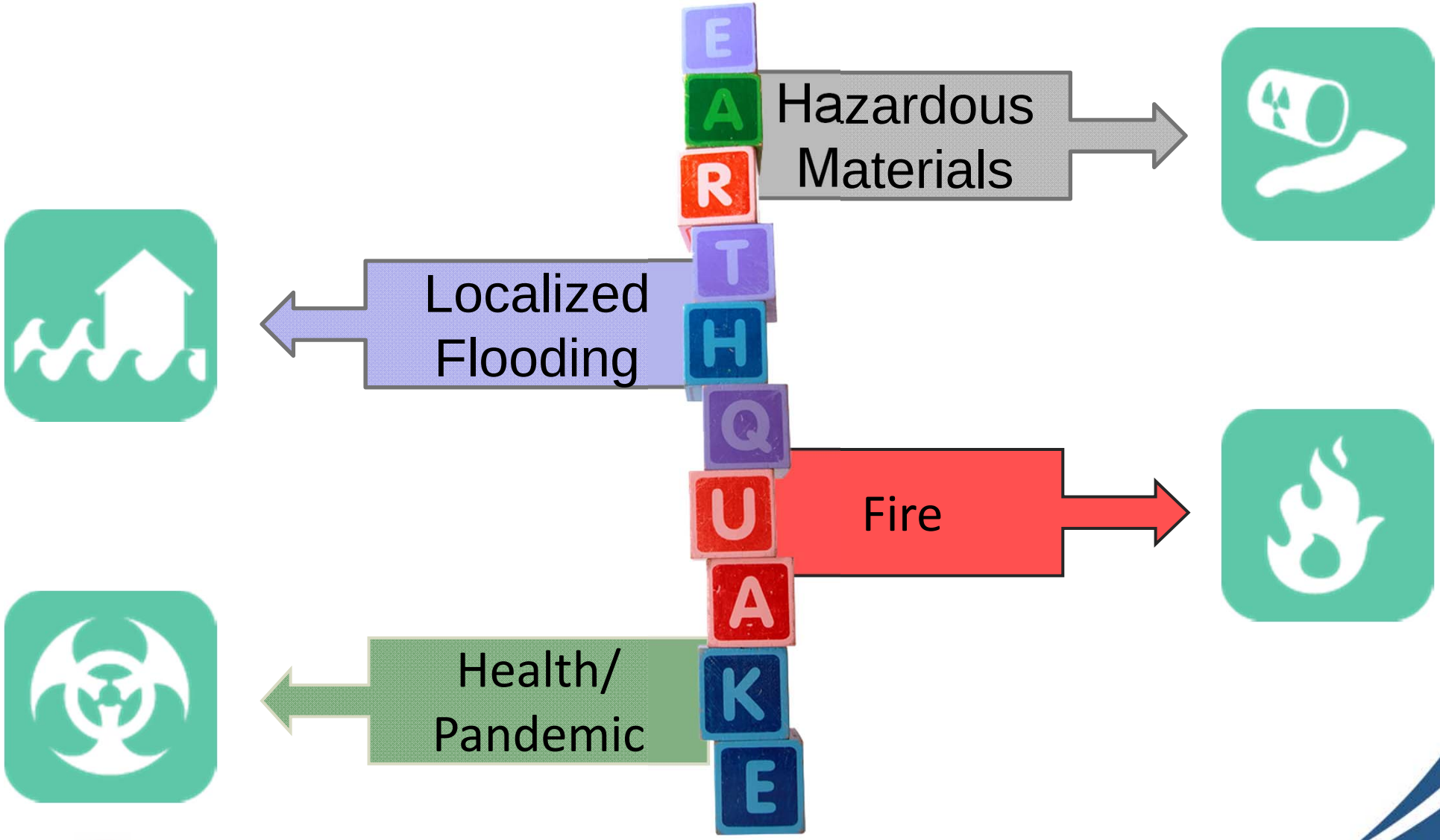
When the trembling stops, the disaster is only the beginning!



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Prevent

Not sure how to prevent an Earthquake,

- How about preventing things from potentially falling on you?

- How about not knowing where your loved ones are?

- How about not knowing what to do after?

Prepare

Things you can do now, before an earthquake:

- Know the risks

- Make a plan

- Get a kit

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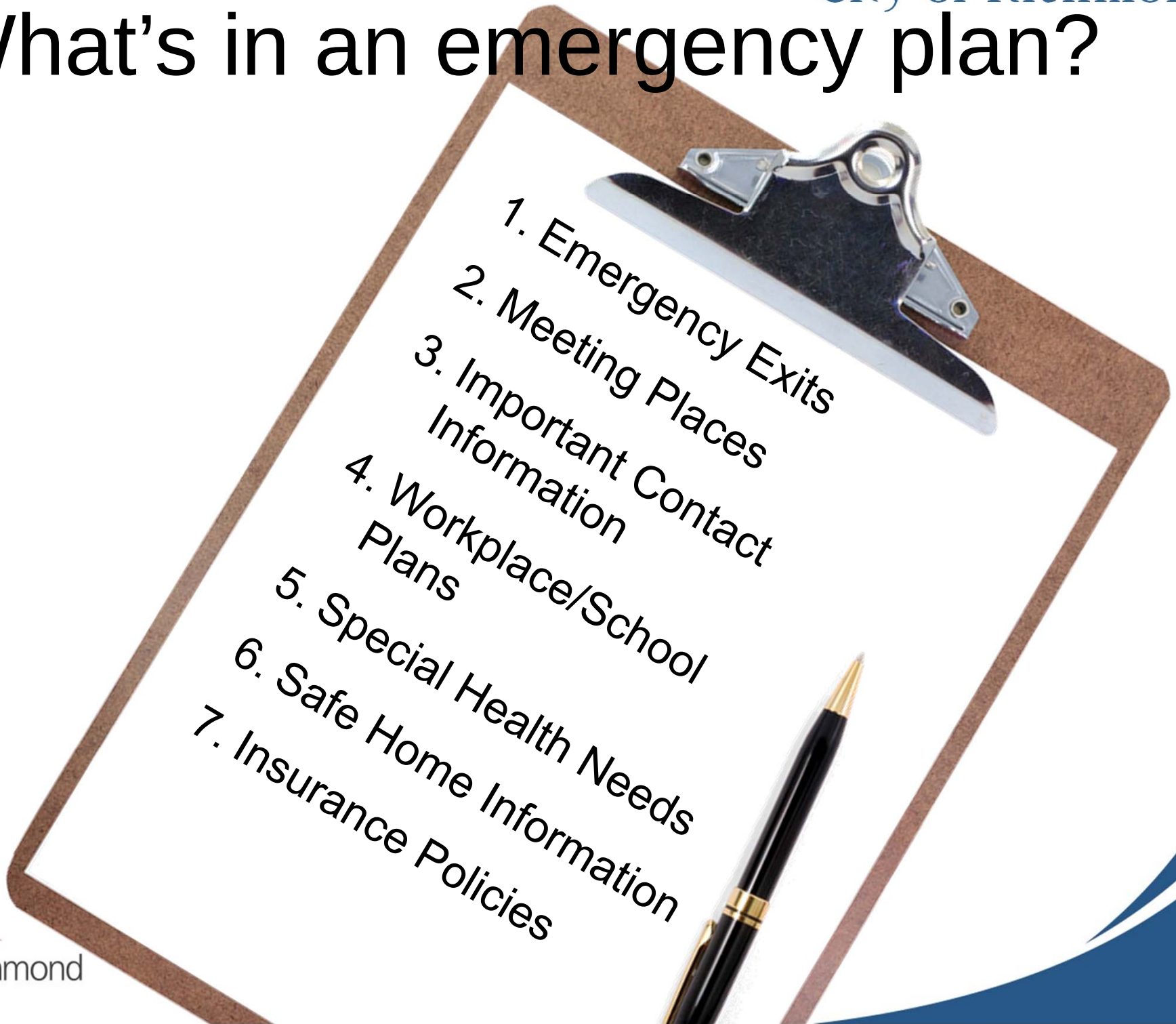
What's in an emergency plan?



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Emergency Kits

Grab and Go Kit

If you need to leave your home quickly

- Contains essential items
- Limited amount of supplies

Basic Items

Food & Water
Flashlight
Cash in small denominations
Radio
Copy of your emergency plan
First aid kit / medications / glasses
Extra keys to car and home

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Emergency Kits

Family Emergency Kit

Supplies to provide for your family for 72 hours to 1 week

Additional Items

- Clothes
- Blankets
- Hand sanitizer
- Basic tools / work gloves
- Garbage bags
- Whistle
- Toilet paper/alternative toilet
- Other items listed in handouts

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Emergency Kits

www.CDART.org

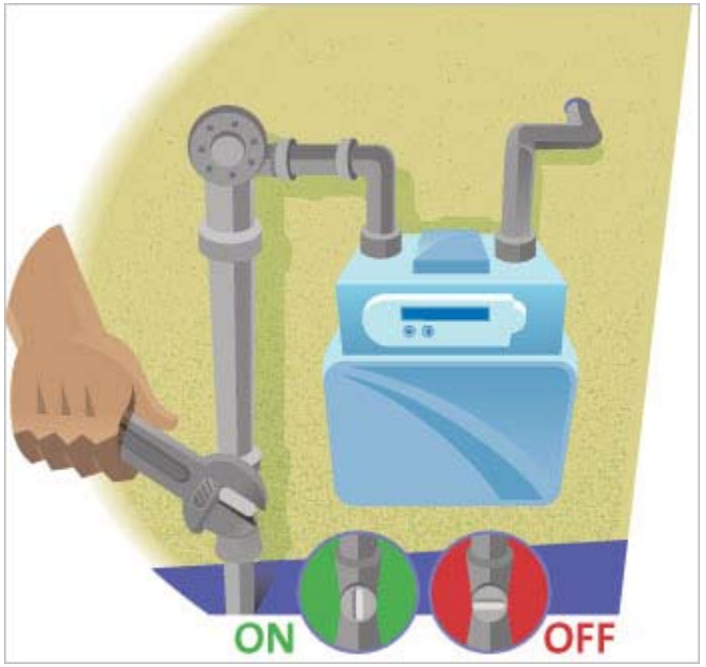
Pet Emergency Kit

- Food & Water (72 hours to 1 week)
- Can opener / bowls
- Leash, collar, harness & ID tags
- Pet specific items, for example, a litter box for cats
- Contact information

Act

Things you need to do

- Know what to do during and after an earthquake
- Know when to call 9-1-1
- Help your neighbour



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During an Earthquake…

Drop, Cover, Hold On

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What if's..

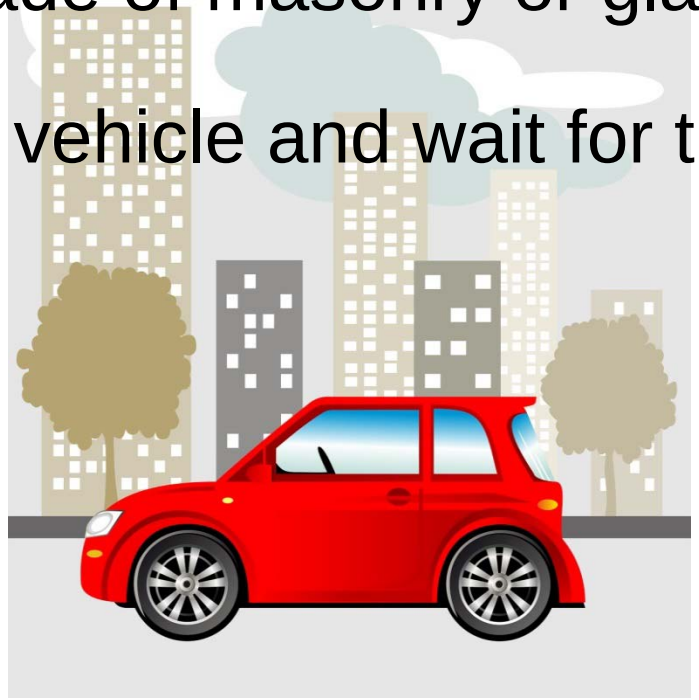
<u>What if there's no table?</u>

- DO NOT try to run to another room
- Choose an inner wall, hallway or a corner
- Crouch down and cover your head and neck
- Expect aftershocks

What if's..

What if I'm in a vehicle?

- Safely move to shoulder of the road
- Away from bridges, overpasses, power lines and buildings made of masonry or glass
- Stay in your vehicle and wait for the shaking to stop

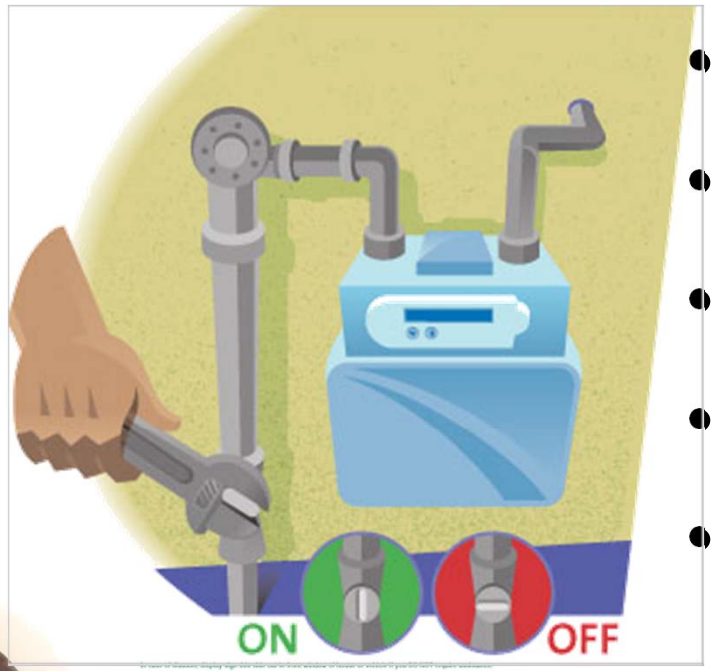


What if's..

What if I'm outside?

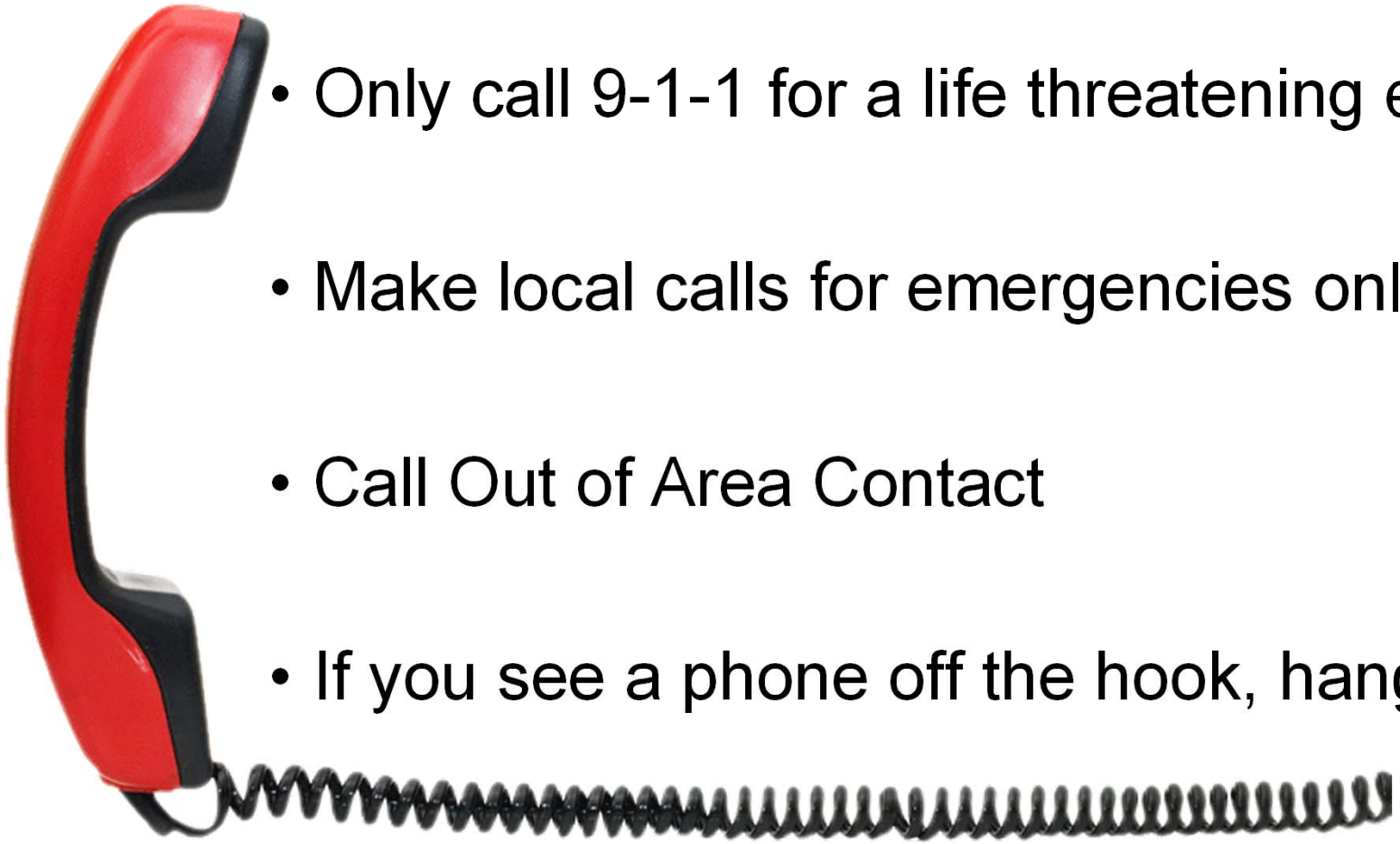
- Stay outside!
- Move into open areas, well away from buildings made of masonry or glass, walls and power lines
- Stay low and protect your head

After an Earthquake



- Check for injuries
- Protect hands and feet
- Expect aftershocks
- Check utilities
- Turn on your radio – listen for instructions
- Place Help/OK Sign in window or door
- Go to meeting place
- Help your neighbour

When to use the phone



- Only call 9-1-1 for a life threatening emergency
- Make local calls for emergencies only
- Call Out of Area Contact
- If you see a phone off the hook, hang it up

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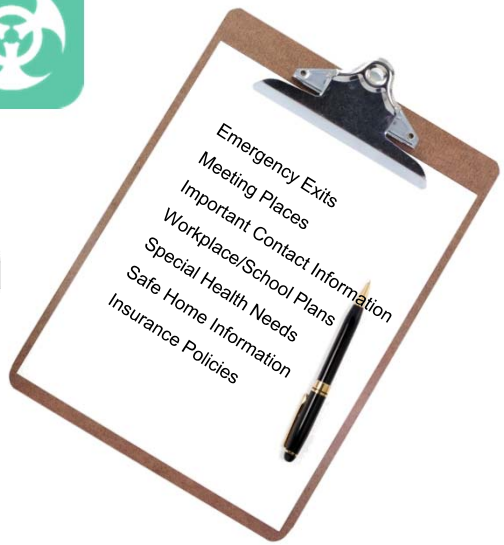
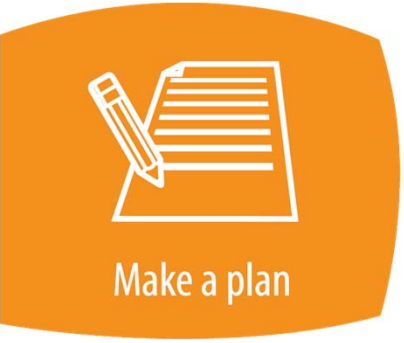
When You Go Home Today

- Learn the risks



- Make a family emergency plan



- Make a kit

- Know what to do in an emergency

- Place a pair of shoes under your bed

- Sign-Up with Richmond BC Alert

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Prevent Prepare Act

Questions?

Couple of minutes of Q & A

Come to our info-table for an evaluation form.

Submit evaluation form to win a prize!

Richmond Fire-Rescue

Fire and Life Safety Educator

Peter Tellis

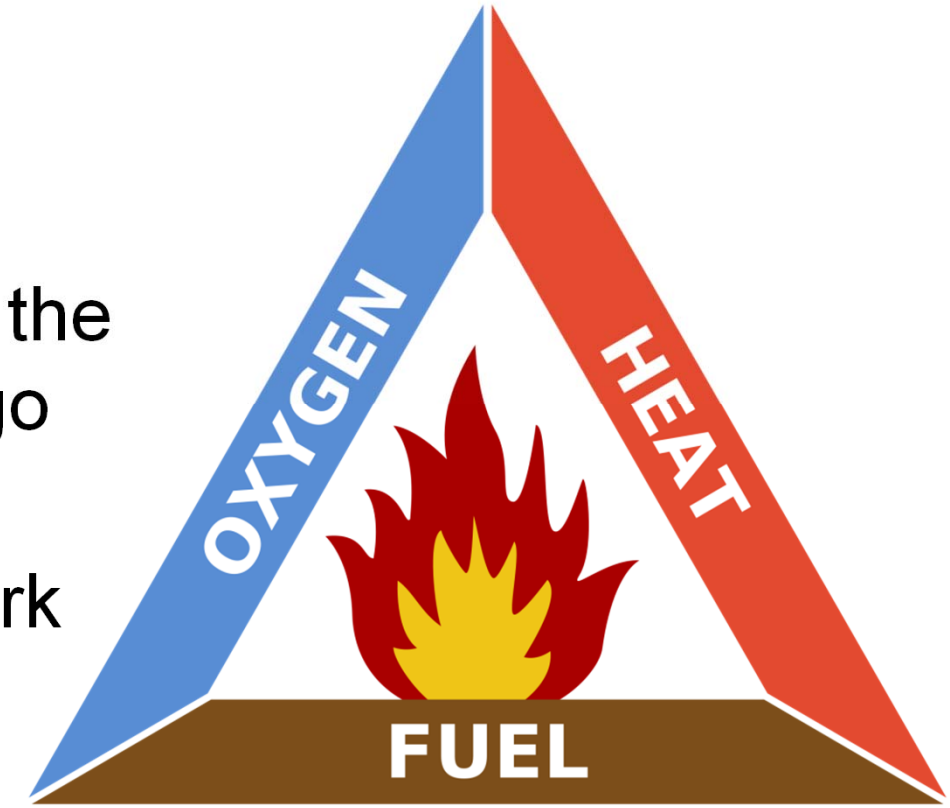
Our Mission

"Is to protect and enhance the City's livability through service excellence in prevention, education and emergency response".

What is Fire?

The Fire Triangle :
Combination of Heat, Fuel and Oxygen

- Remove any one side of the triangle and the fire will go out.
- Extinguishers usually work on one aspect of the fire triangle.



The Myth About Fire

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The Truth About Fire

How long do you have before a fire becomes life threatening?

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Many Canadians believe a fire will never occur in their home

The Fire Department will arrive immediately and save everyone

Community Safety is not their responsibility

We do not understand the reality or seriousness of fire

Learned fire safe behaviours have not been put to practice

Smoke Detectors

- Install smoke alarms in every bedroom and/or outside each separate sleeping area and on every level of the home.
- Photoelectric alarm by the kitchen
- Ionization Alarms every where else

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Smoke Detectors - Testing

- Test Smoke alarms once a month
- Replace batteries 2 times per year
- Replace detectors every 10 years

- Bring up testing with your Strata Council

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Carbon Monoxide Detectors

- Carbon Monoxide is ‘silent killer’
- Invisible, odourless, colourless gas when fuels burn incompletely
- Heating/Cooking equipment that burn fuel can be cause
- Install in central location outside each sleeping area, and every level of home
- Test once a month.
- Replace according to manufacturer requirements

Classes of Fire

Class A

- ordinary combustibles such as wood, cloth, paper, rubber and many plastics

Class B

- flammable liquids such as gasoline, cooking oil, grease, tar, oil based paint, lacquer and flammable gas

Class C

- energized electrical equipment including wiring, fuse boxes, circuit breakers, machinery and appliances

Types of Extinguishers

Water Extinguisher

- Used on Class A fires
- Extinguishes by reducing temperature
  - **Advantages**
    - readily available &
    - absorbs a large quantity of heat
  - **Disadvantages**
    - conducts electricity & freezes
    - not effective on flammable liquids

WATER
FIRE EXTINGUISHER
9Ltr WATER
13A
1. USE UPRIGHT. PULL OUT PIN
2. AIM NOZZLE AT BASE OF FIRE FROM APPROX 2 METRES
3. SQUEEZE HANDLE TO OPERATE RELEASE HANDLE TO STOP.

Types of Extinguishers

Carbon Dioxide Extinguisher

- Used on class B and C fires
- Extinguishes by displacing the oxygen and smothering the fire
  - **Advantages**
    - leaves no residue & effective in confined spaces
  - **Disadvantages**
    - trigger mechanism and nozzle may freeze
    - short reach, affected by wind

Types of Extinguishers

Dry Chemical

- Used on Class A, B and C fires
- Extinguishes by interrupting the chemical chain reaction
  - **Advantages**
  - can be used on Class A, B and C fires
  - will not freeze, does not conduct electricity
  - **Disadvantages**
  - leaves a residue
  - not as effective as other extinguishers on Class A fires

PULL AND REMOVE THE PIN LOCATED AT THE TOP OF THE EXTINGUISHER.

AIM THE DISCHARGE NOZZLE AT THE BASE OF THE FIRE.

SQUEEZE THE TOP HANDLE OF THE EXTINGUISHER.

SWEEP THE DISCHARGE FROM SIDE TO SIDE ACROSS THE FIRE.

Cold Fire

- **Non-Toxic**
- **Non-Corrosive**
- **Biodegradable**
- **Clean Distribution of Product**
- **Non-Slip**
- **No special training required**
- **Non-hazardous, safe to handle and apply**
- **Enhances waters ability to penetrate, extinguishing the fire faster, using less water and therefore less damage**
- **Cools 21 times faster than water**
- **Extinguishes Class A, B, D or K fires, hydrocarbons or polar solvents, metals, tires and even asphalt**

Fire Drills - Escape Plan

- Have two way to escape every room
- Have safe meeting area outside
- Practice home fire drill 2 x per year

What to do when there is a fire.

- Working smoke alarms saves lives
- Stay Low and Go
- Get Out Stay Out, Call 9-1-1
- Don’t leave kitchen if your cooking
- Don’t open oven door in case of oven fire
- Keep lid that fits pot/pan nearby

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Should You Fight a Fire?

- Has everyone left the building?
- Has the fire department been called?
- Is the fire contained to a small area?
- Do you have a clear escape route between you and the fire?
- Is there an appropriate, working fire extinguisher available?
- Do you know how to use the extinguisher?

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#RichmondBC

Find us on: facebook

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Richmond Fire-Rescue

YouTube

City of Richmond
YouTube Channel

www.richmond.ca/firerescue

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Time for Questions ?

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Royal Canadian Mounted Police
Richmond Detachment

Cpl. Kevin Krygier
NCO i/c Crime Prevention

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Our Overall Mission:

- Safe homes, safe communities.

Related Organizational Priorities:

National

- National security
- Economic integrity

Local

- Enhancing engagement and partnering with citizens and community stakeholders.

Our Role During a Disaster:

- Preserve public safety.
- Support other first responders.
- Enforce the law.
- Maintain public / civil order.
- Assist with evacuations, rescue, recovery.
- Strategic access and traffic control.

Crime Prevention:

A pattern of attitudes and behaviors directed both at reducing the threat of crime and enhancing the sense of security to positively influence the quality of life in our society and to develop environments where crime cannot flourish.

Crime Prevention Framework:

- Crime prevention has a strategic role to play in community preparedness.
- A safe community begins with safe, engaged citizens.
- Many shared or parallel values.

Prevention:

- Is defined as the action of stopping something from happening.

- We cannot prevent emergencies from occurring, but we can prevent ourselves from being unprepared = severely impacted.

- We can also encourage others to prevent in order to minimize consequential burden.

How You Can Prevent:

- Take steps to diminish your vulnerability:
  - – Emergency kit
  - – Response plan
  - – Educate yourself
  - – Commit to assist others, so they reciprocate and enhance community preparedness.
  - – Know your neighbours, join Block Watch.

Preparation:

- Is taking into consideration the potential for something to occur and taking steps to attend to the consequences of these occurrences.

- Understand that emergencies WILL happen to everyone at some point.

How You Can Prepare:

- Everyone should take steps to ‘keep mayhem to a minimum’, by:

1. Being informed about the risk
2. Being vigilant, tuned into what is around you (such as the weather)
3. Developing a plan and practicing it often
4. Assembling the tools and resources to support the plan

- If you don’t know where to start, seek advice from a trusted resource.

Action:

- Is the process of initiating something to bring about an effect.

- The time to act is BEFORE and emergency. In other words, NOW.

- Failure to act will result in increased challenges for all citizens.

How You Can Act:

- Acquire knowledge.
- Make and practice a plan.
- Build an emergency kit.
- Join a community group like Block Watch
  - email for info: blockwatch@richmond.ca
- Encourage others and support friends and family with their preparations.

Tools and Resources:

RCMP & Government of Canada

- www.rcmp-grc.gc.ca
- www.getprepared.gc.ca

Province of BC

- www.gov.bc.ca/preparedbc (Twitter: @PreparedBC)

Richmond RCMP

- richmond.rcmp-grc.gc.ca

How to Connect:

Email

Richmond_Crime_Prevention@rcmp-grc.gc.ca

Phone

911 – Emergency Only

(604) 278-1212 – Non-Emergency

Visit Our Table

Outside in the City Hall Atrium

Discussion...

Thank you for participating with our presentation.

Come to our Information booths for more discussion
and
complete a feedback form to win a prize.